MAGICOM MAIN LOGIC SCHEMATIC REVISIONS

- A. Original release.
- B. R3: Was 1K; became 300.
 D0 on U20 incorrectly shown as Pin 8. Changed to pin 18 on 6/23/83.
- C. Addition of capacitor C63, 220pf disc between U24, Pin 3 and ground. 6/27/83.
- D. C54: Was 0.001uf disc. Became 0.1uf disc on 6/29/83.
 C63: Was 220pf disc. Became 0.001uf disc on 6/29/83.
 74LS244 inserted between 4MHz signal and U1 (280), Pin 6.
 U17, Pins 13 and 7 used these were formerly a spare gate.
 6/29/83.
- E. C40, 0.01 disc tied between U22, Pin 2 and ground is deleted. 74LS244 inserted between Q1 collector and U22, Pins 1 and 2. U17, Pins 11 and 9 used these were formerly a spare gate. U1(Z80), Pin 25 cut from U7 (MC68705P5), Pin 9. U1(Z80), Pin 25 tied to R48 (new addition) 4.7K ¼W 5% resistor. Other side of R48 tied to +5V.

Ul8(74LS245), Pin 19 cut from U7(68705, Pin 14. Ul8, Pin 19 tied to +5V.

Ul7(74LS244), Pin 17 cut from U7, Pin 19. Ul7, Pin 17 tied to +5V.

U23(74LS244), Pin 1 cut from U22(74LS00), Pin 11. U23, Pin 1 tied to ground.

All of "E" above were effective on 7/8/83.

- F. Deletion of the following effective 7/8/83:
 - U5 74LS244
 - U6 74LS393
 - U12 74LS244
 - U13 74LS393
 - U17 74LS244
 - U18 74LS245

Subtitute U23 for U17 (74LS244) for clock signal into Z80 (U1, Pin 6 from U23, Pin 7) and reset signal into U22, Pins 1 and 2 from U23, Pin 9 effective 7/8/83.

- G. C63: Was 0.00luf disc. Became 470pf effective 9/5/83.
- H. Reset signal sent from U23, Pin 9 to U16, Pin 1 to cure false coin count on power up.
- I. Reference letter not used.

- J. Correct pin out for inputs on U20(74LS244) effective 9/16/83.
- K. C63: Was 470pf disc; became 330pf disc.

C17: Was 330pf mica; became 330pf disc.

Addition of U31(74LS74) to divide clock.

Y1: Was 4.000MHz; became 16.000MHz.

U24: Was74LS04; became 74S04.

Addition of R29 between U29, Pin 4 and C24. Addition of R50 between U30, Pin 4 and C50.

These two additions allow option for U29 and 30 with the following components:

R49, R50 = 0 ohm jumper $\frac{\text{CA2002}}{\text{2.2 ohm}}$, $\frac{1}{4}$ W 5% C24, C50 = 0.2 Disc 0.1 disc

Addition of Jumper W1, when installed, allows board to be used with Pioneer 7820 disc player with proper software.

Deleted: U7 MC68705

Addition (reinstallation) U6, 74LS393

Ul3, 74LS393

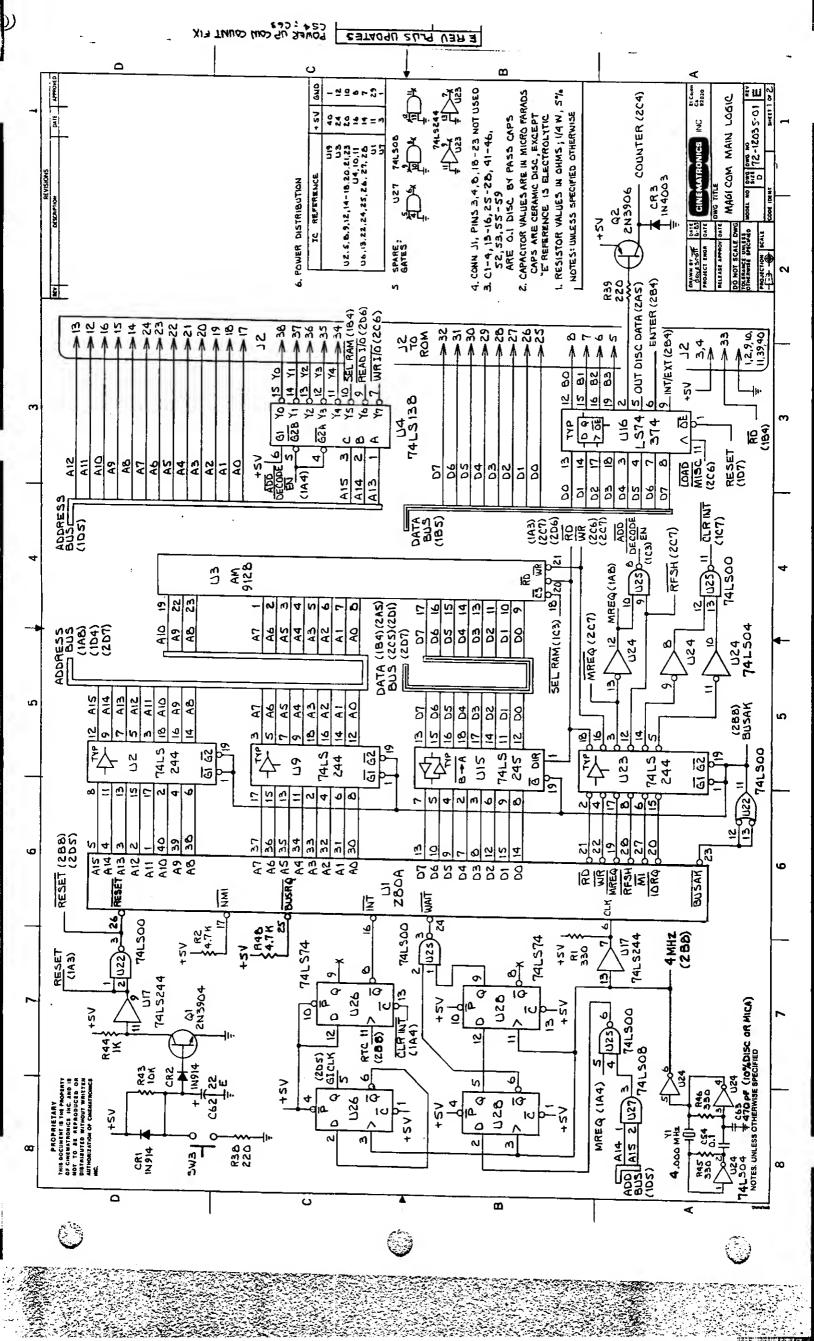
U6, Pins 2 and 12, and U13, Pins 2 and 12 all grounds.

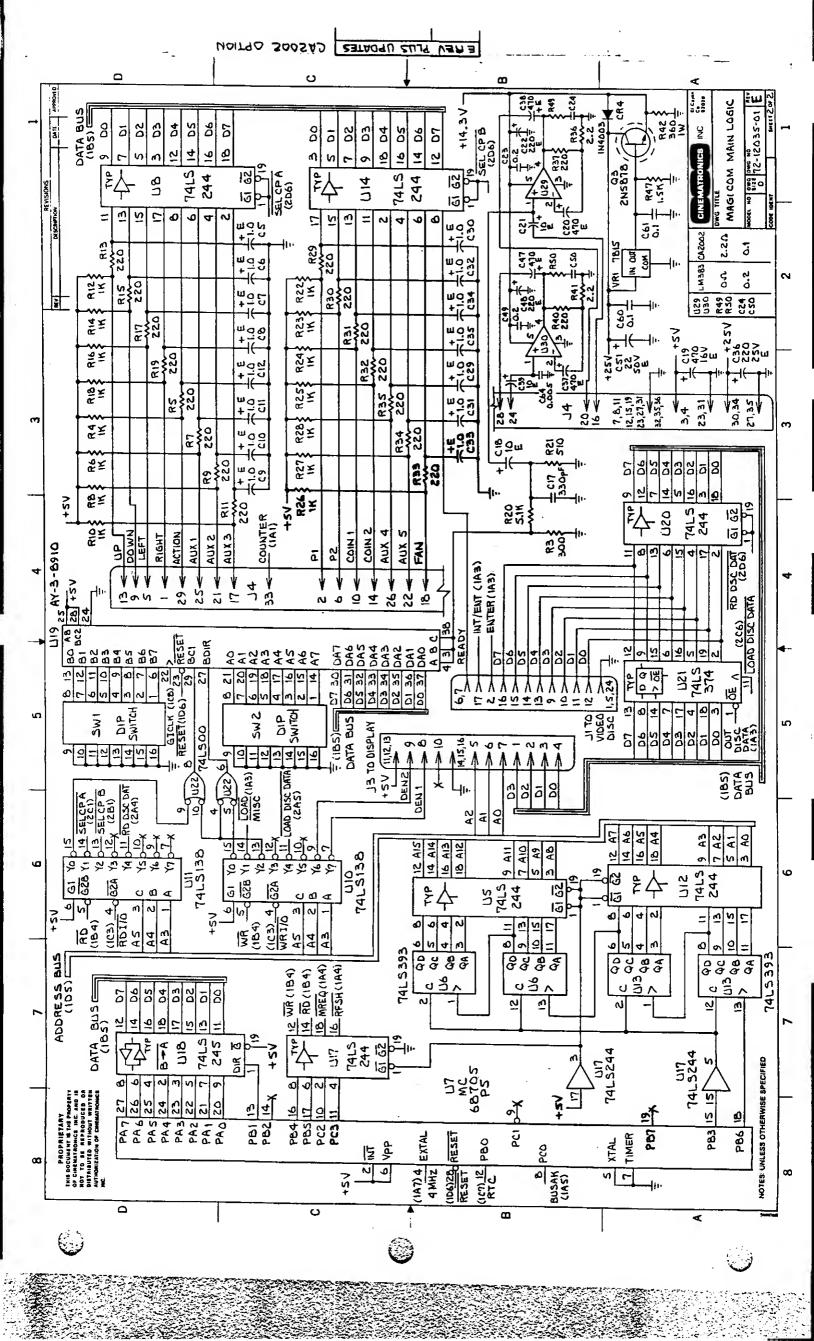
U6, Pin 6 tied to U26, Pin 11 (RTC).

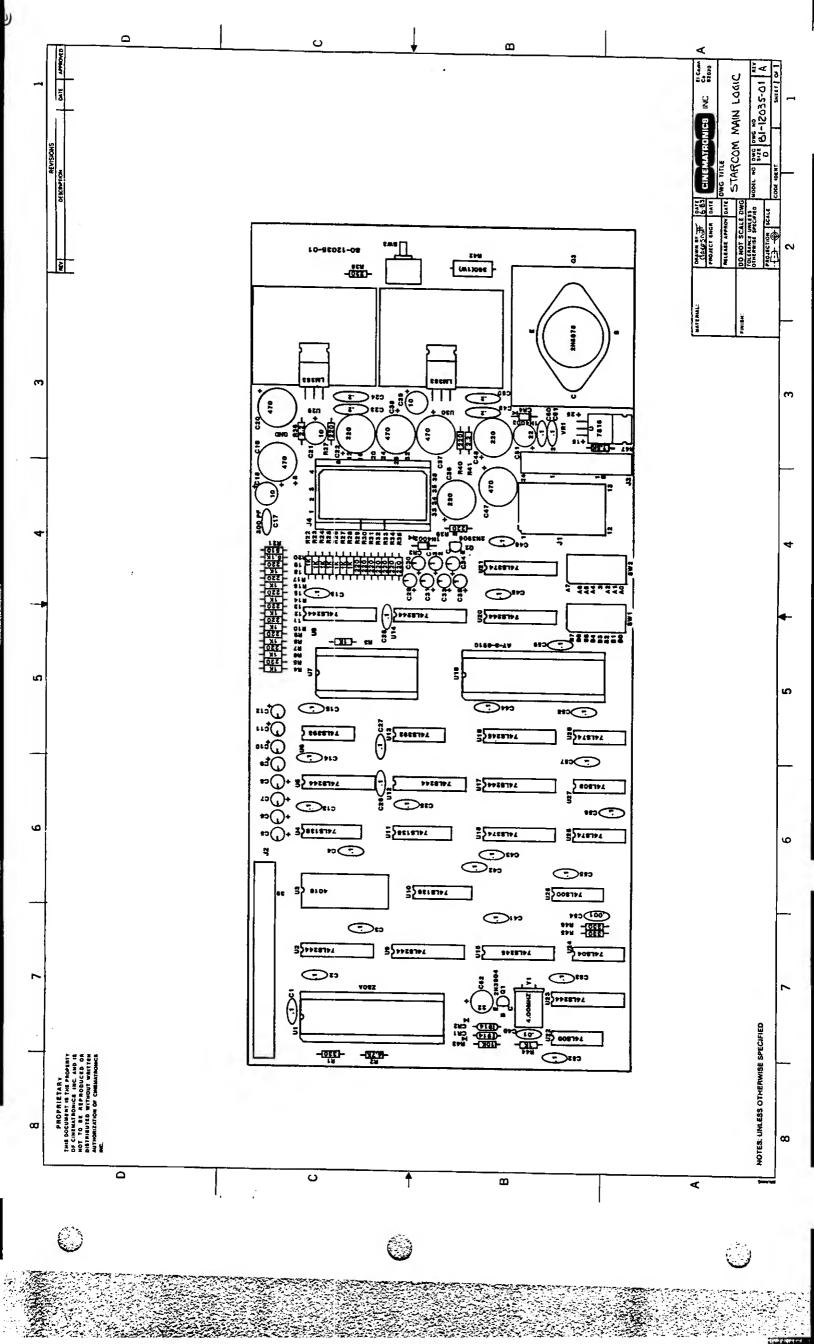
Ul3, Pin 13 tied to U26, Pin 5 (GI CLK)

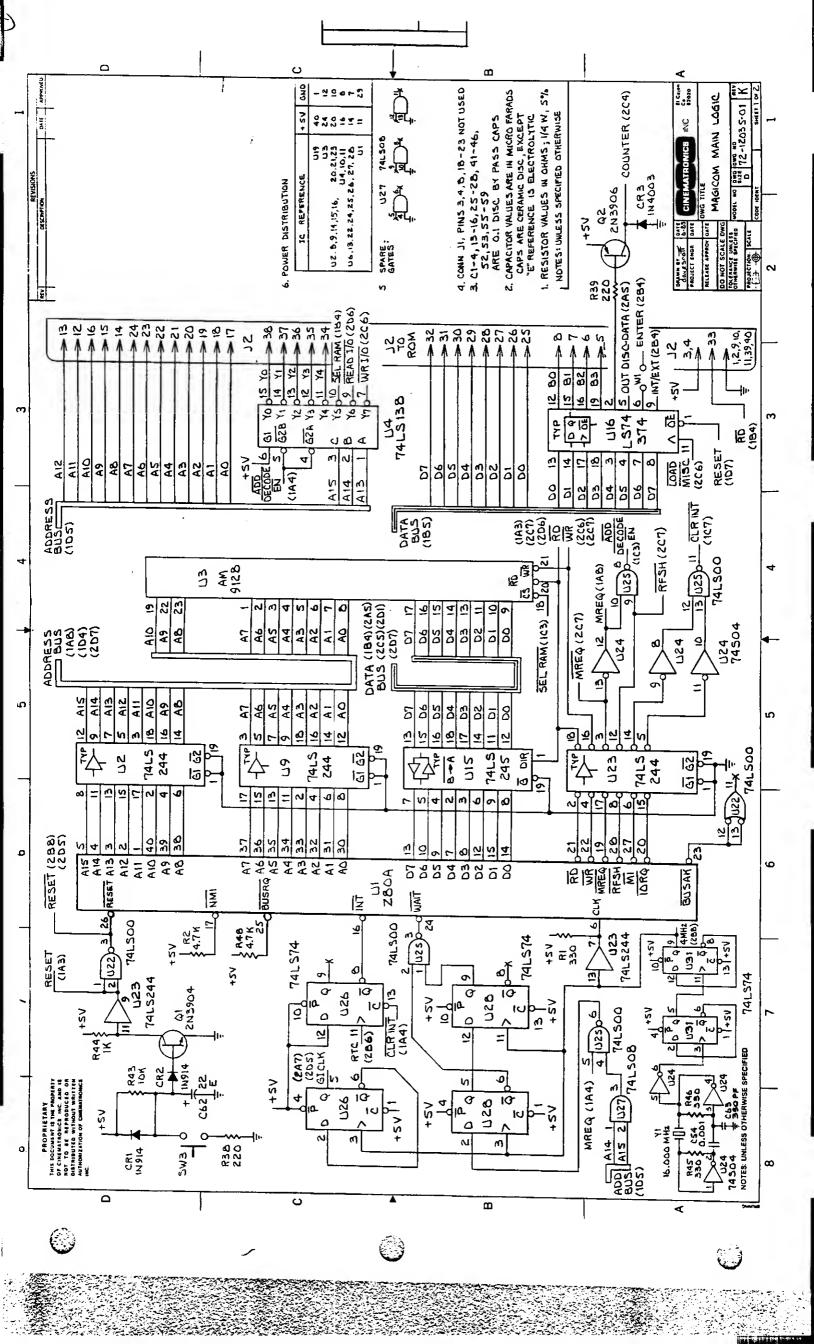
All of "K" above effective 10/10/83.

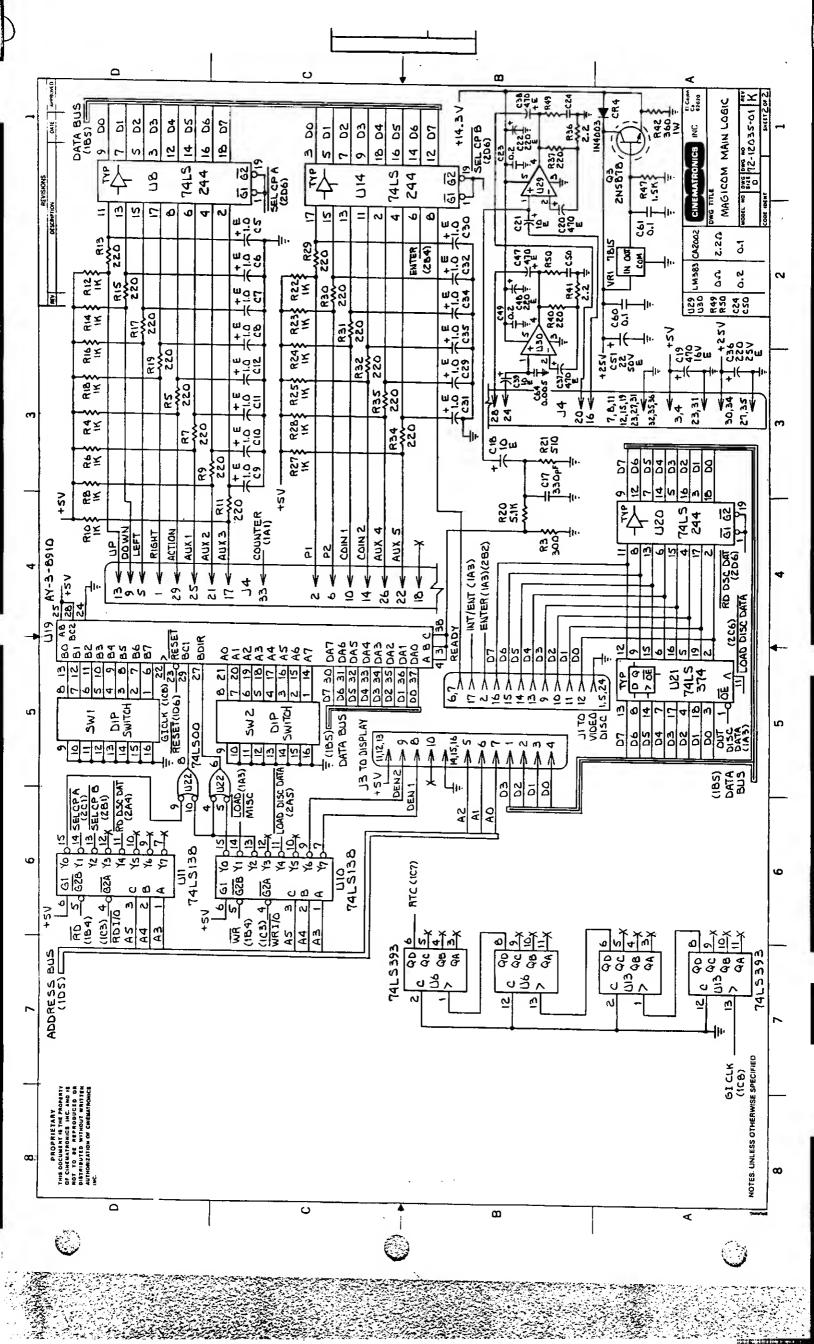
"K" revision schematic is for "C" revision printed circuit board used with LDV-1000 laser disc player.

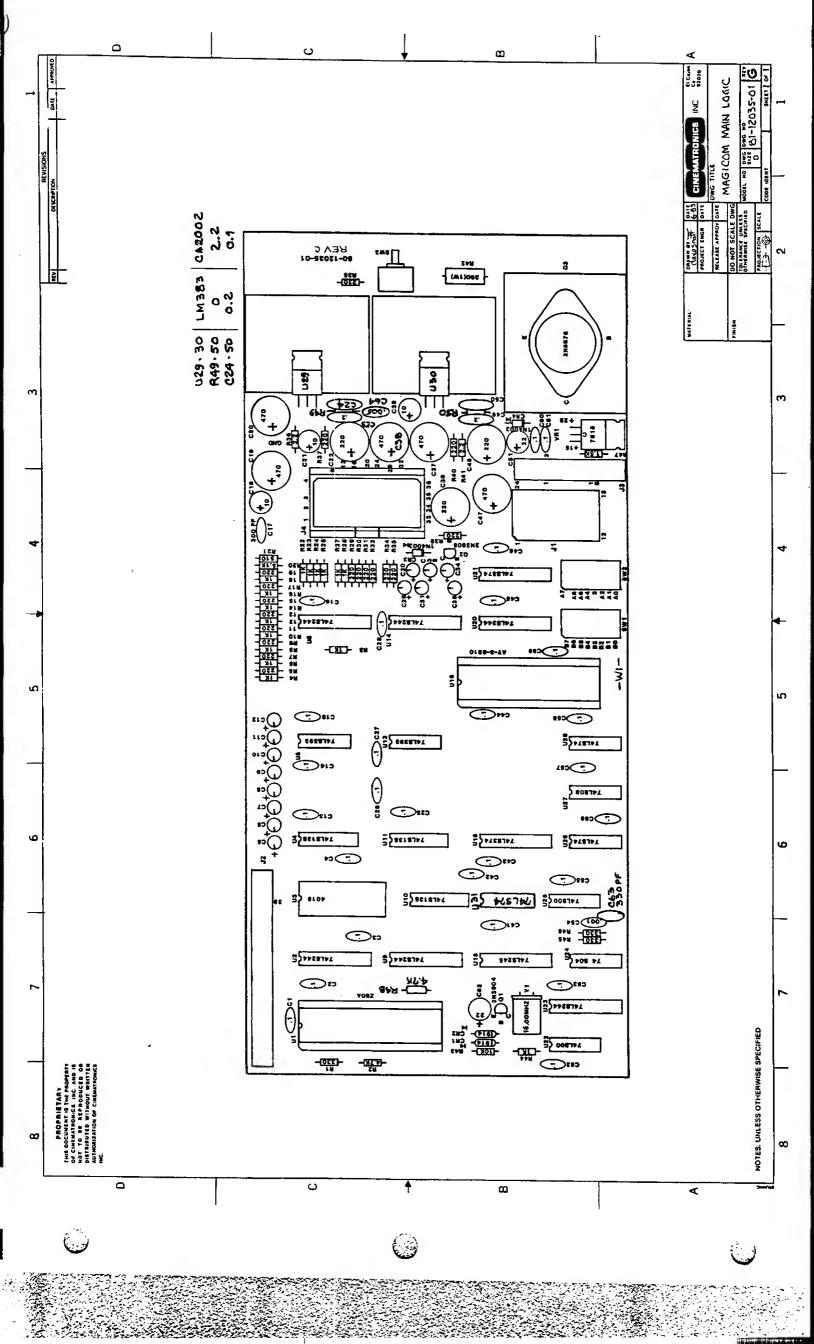


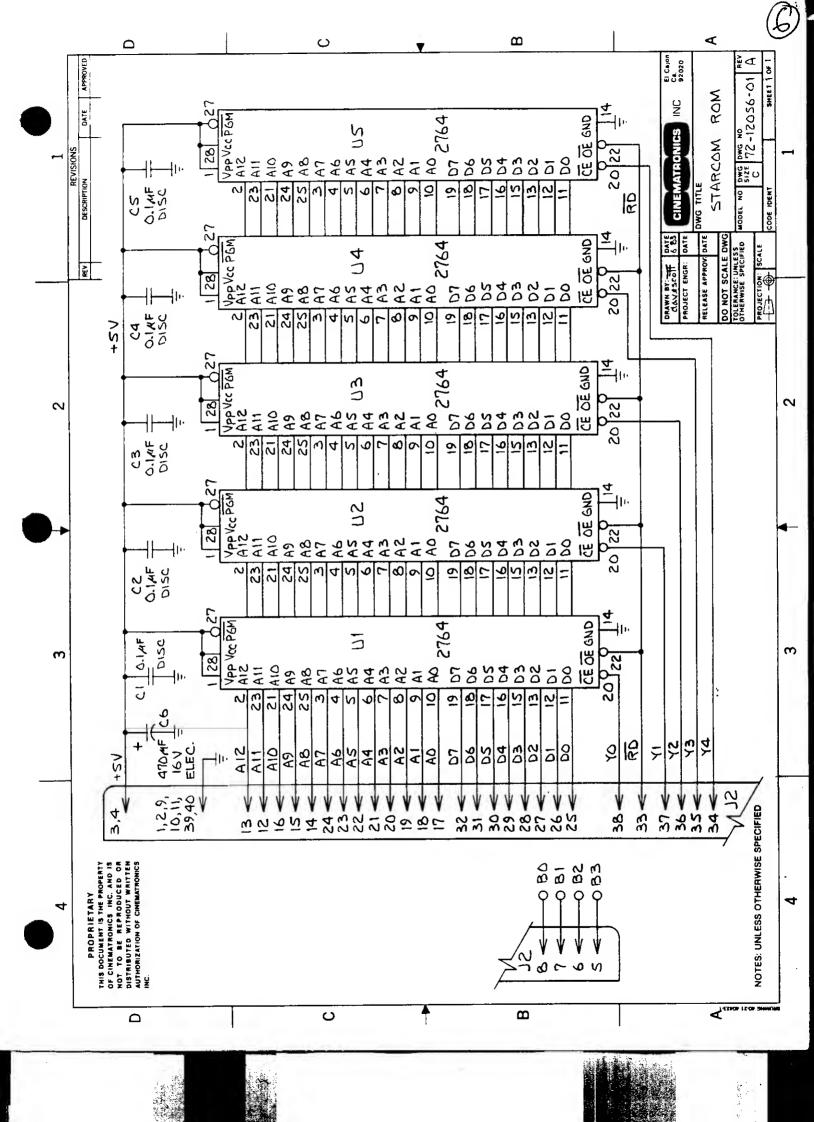


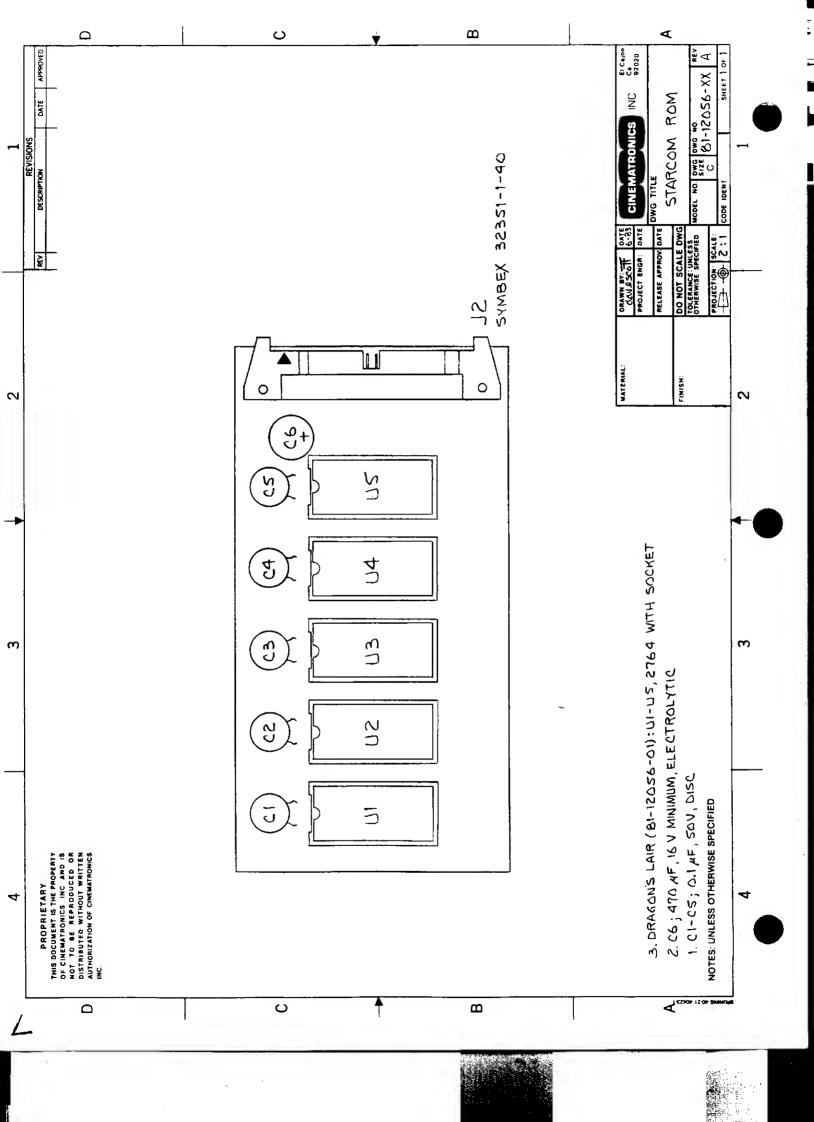


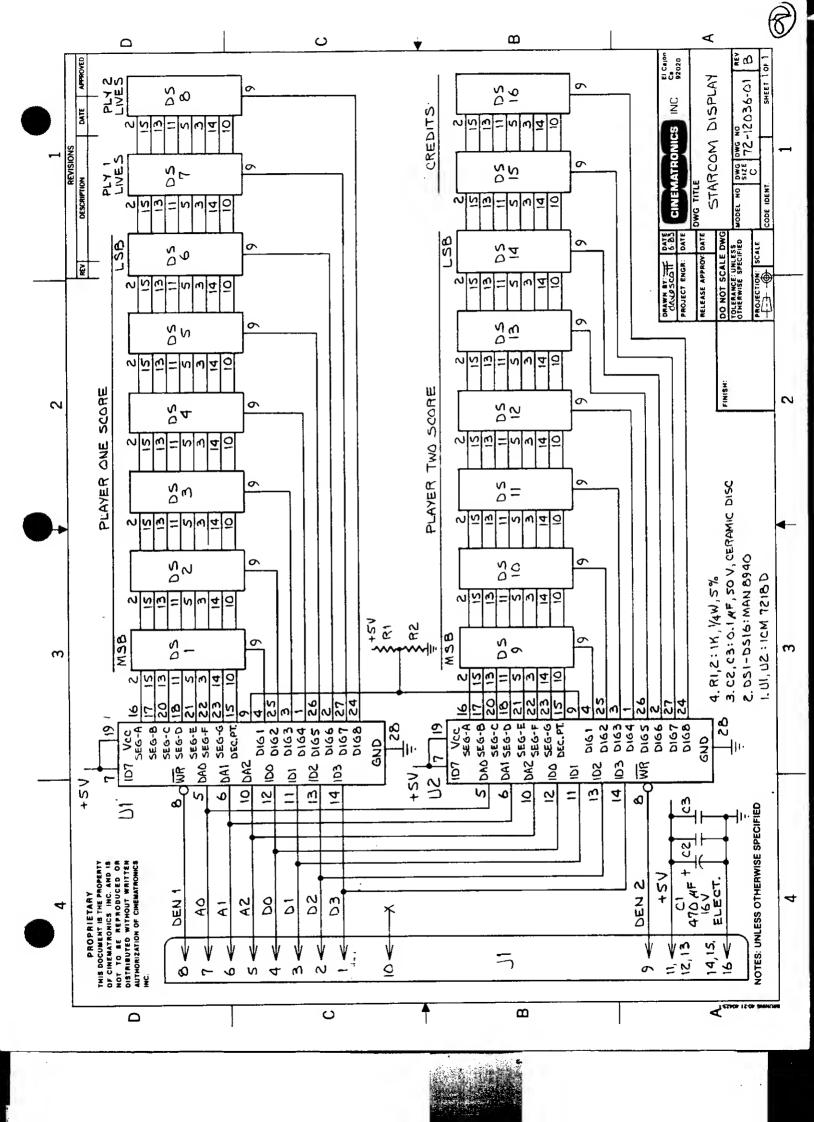


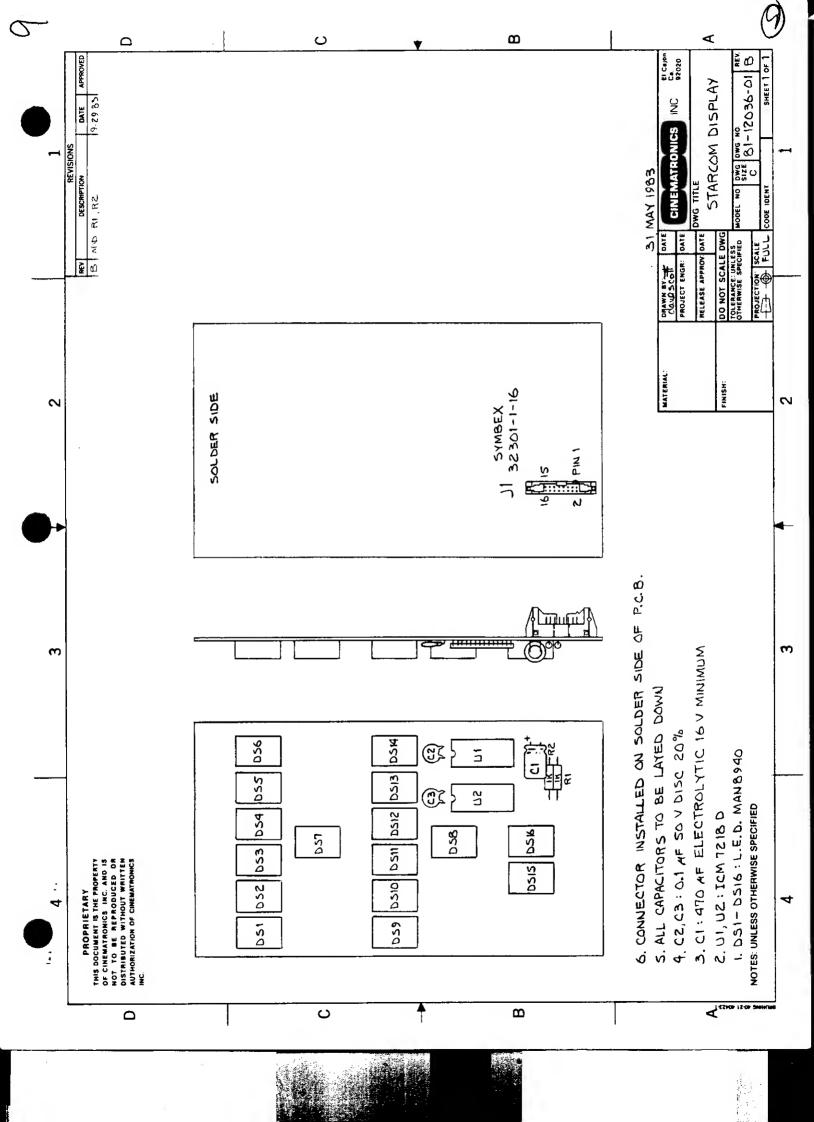












11 11 11 5.02 5W li 5 N 0 + 10,000 Ħ 11 # 11 1 1000 H Ħ 11 1 E CR8 = = 11 || 2 4 4 5 - 10 - 14 I RESISTOR WILLES ARE IN OHMS, 15%, 4W HOTES UMESS OTHERWISE SPECIFIED 11 13100 30000 S FUSE ONE IS: 54, SB, &50 V S1 1 [41 6 GROUND 2 ALL 1% RESISTORS ARE 14 W NPUT SELECTION
VOLT SI SE
100V UP UP
115V DOWN UP
200V UP DOWN
250V DOWN DOWN NW 00 DOWN 9 101/4 5000 513C PROPRIETARY THE PROPRETY OF CHEMINACE INC. AND IN MOY 19 AN ARRESTICE OF METABLE WITCH WATTER AUTHORISING OF CHEMINAGES (S) \odot (3) 4 (i) 4 (b) 115 VAC OUTPUT 6.3 VAC @.5A US VAC OUTPUT œ AC INPUT 3 . ٥ ပ æ ⋖

٥

党

I Ħ

li

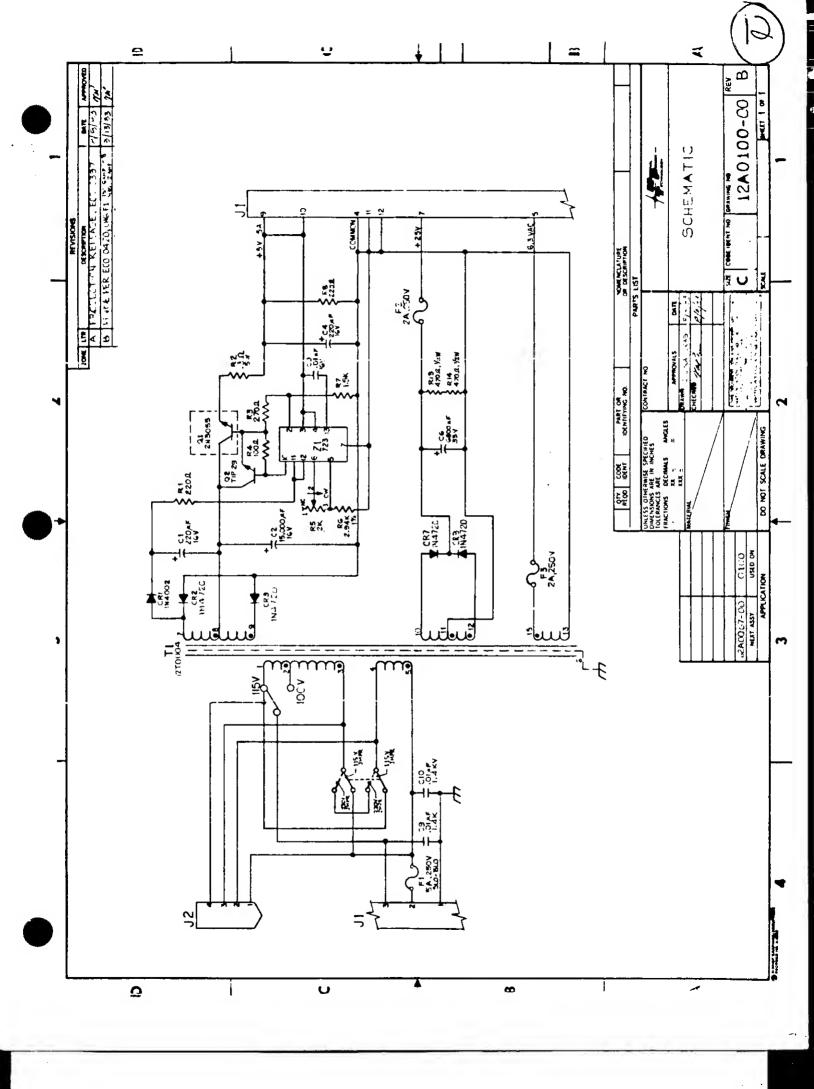
1.8

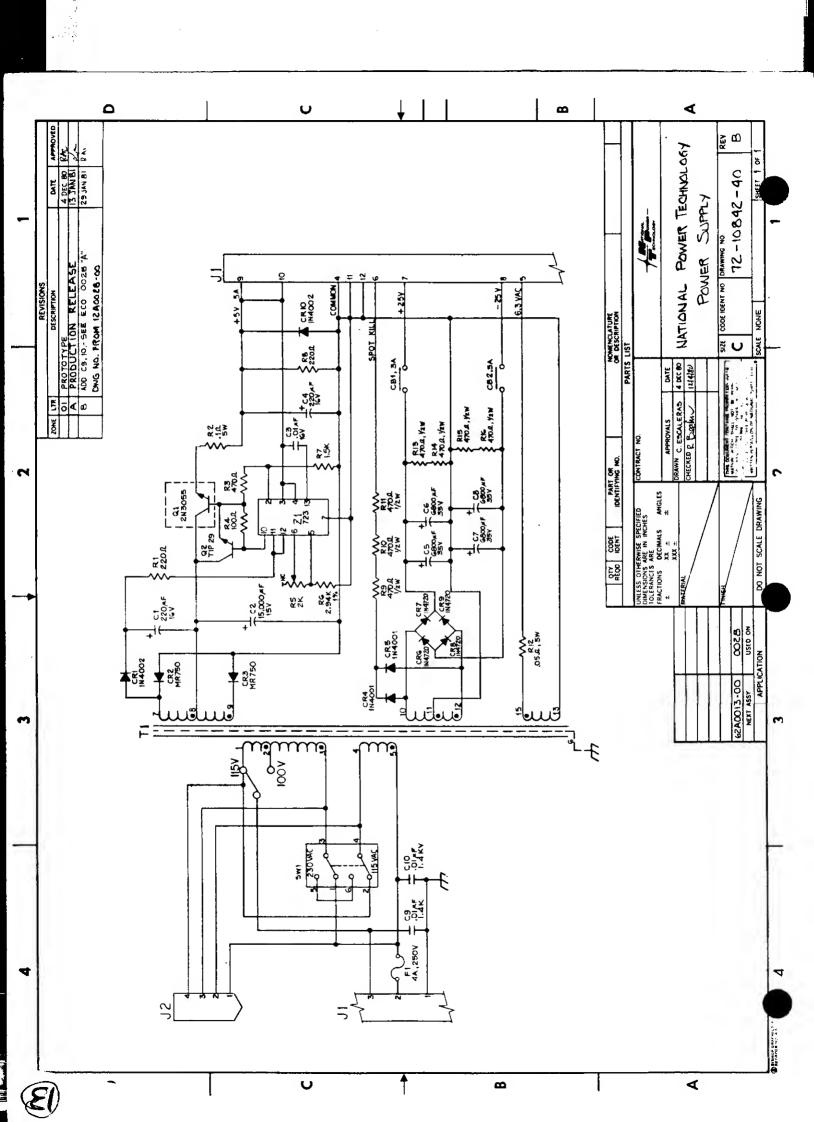
DI SCHIPTION

ŧ

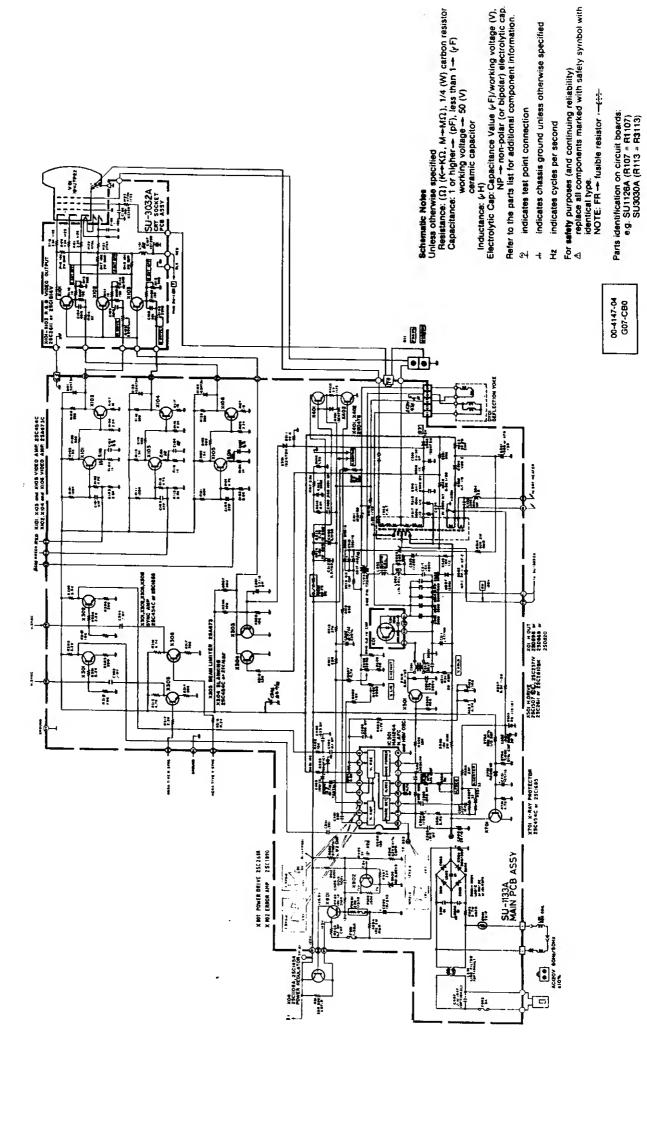
11

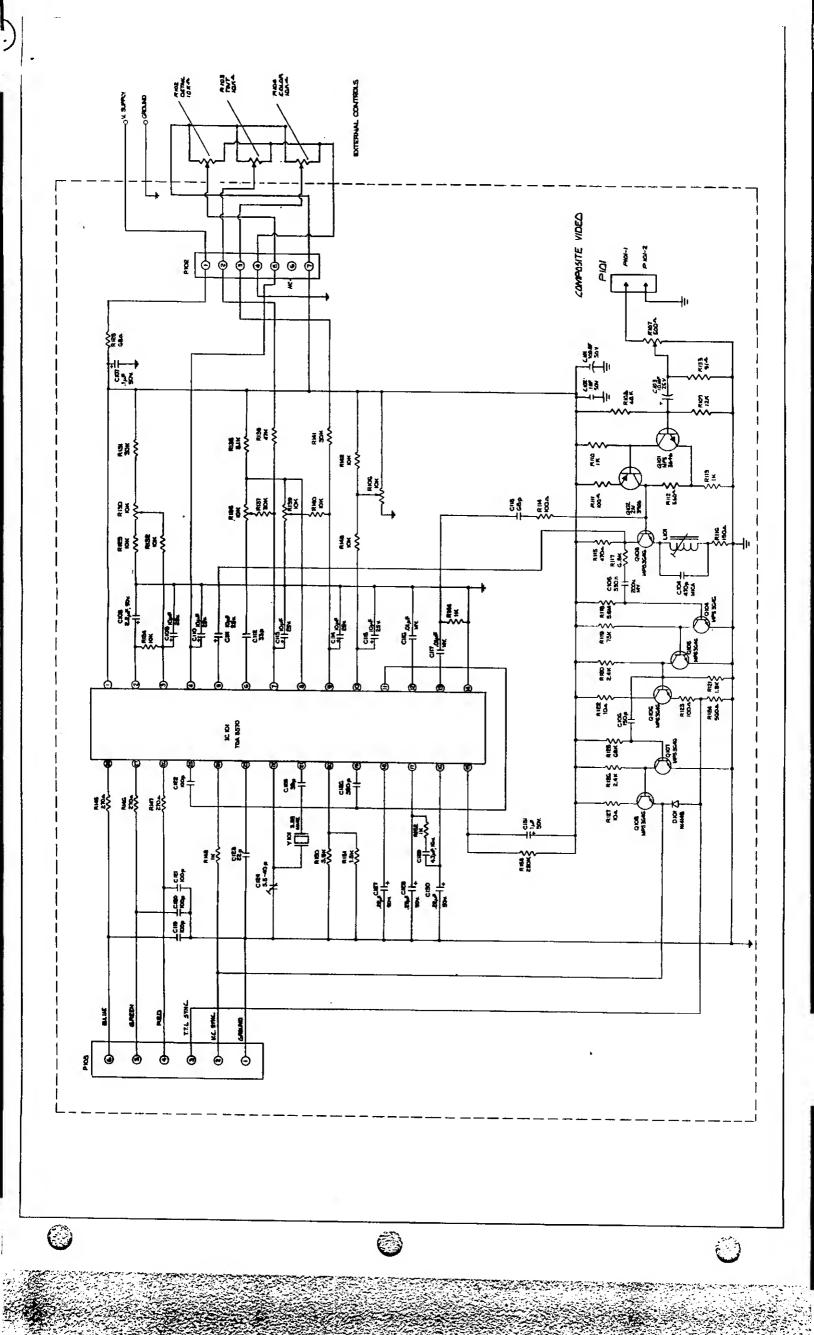
100 mm







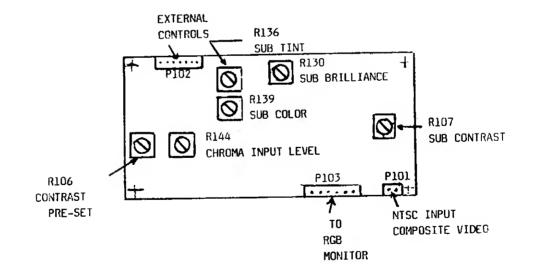




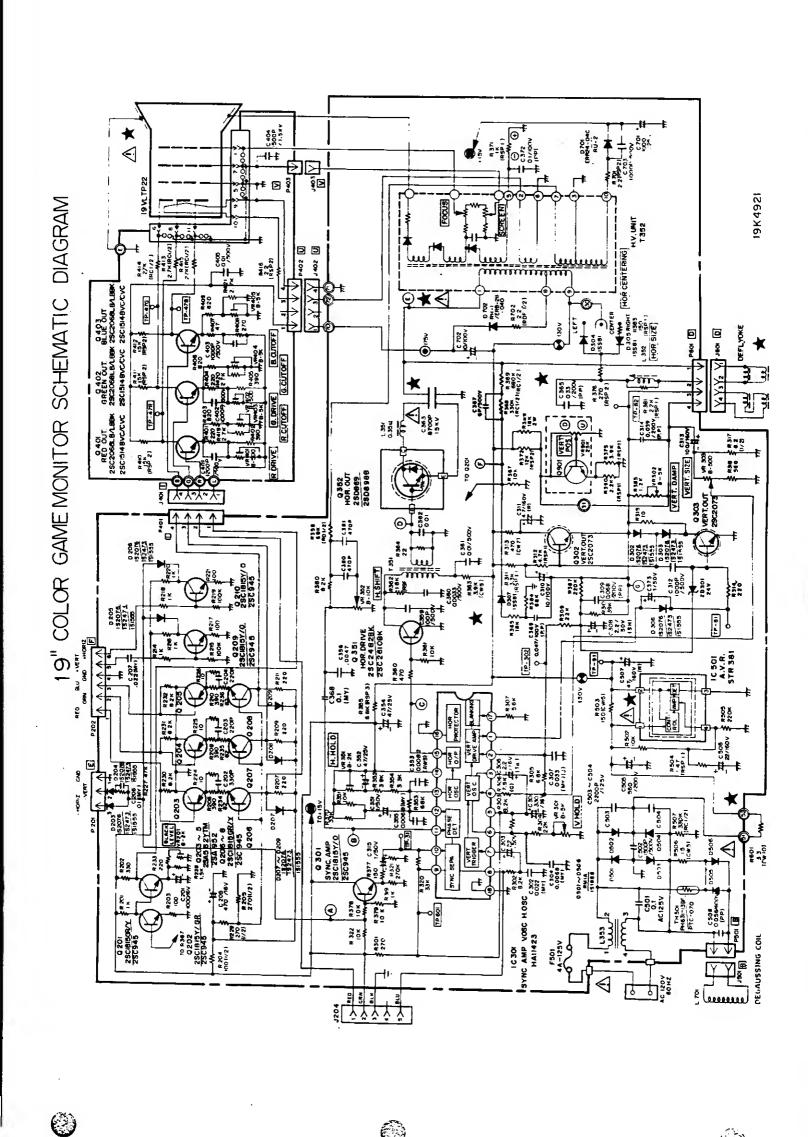
NTSC DECODER SPECIFICATIONS

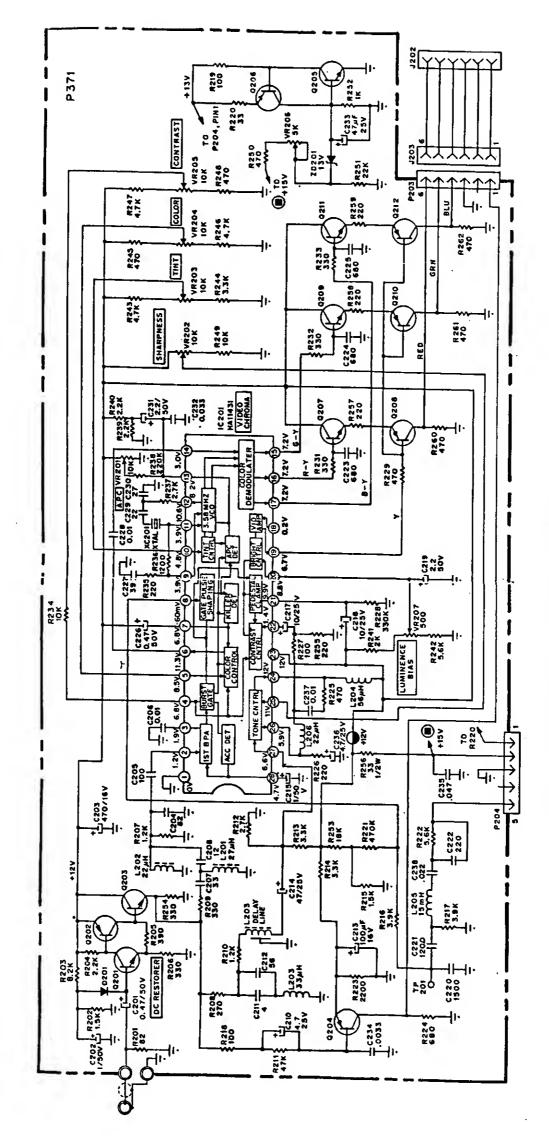
Pin Outs Pl01-1 75 ohm Input Pl01-2 Ground Pl02-1 Vs Supply (16V) Pl02-2 External Tint Wiper Pl02-3 External Color Wiper Pl02-4 Grount to Control Pl02-5 External Detail Wiper Pl02-6 Not Used Pl02-7 Vcc to Control (12V) Pl03-1 Ground Pl03-2 Blanking Output

P103-3 Positive Composite Syno. P103-4 Red Output P103-5 Green Output P103-6 Blue Output



د ک





WELLS GARDNER NTSC DECODER SCHEMATIC

(19)

MAGICOM WIRING HARNESS

FROM	PIN	TO	PIN	SIGNAL
LF SW SW LF LF	HOT N/OPEN N/OPEN NEUTRAL NEUTRAL	SW PS1 VDP PS1 VDP	COMMON 3 HOT 2 NEUTRAL	AC LINE HOT AC LINE HOT AC LINE HOT AC LINE NEUTRAL AC LINE NEUTRAL
PS2 PS2 PS2 PS2 PS2 PS2	1 3 3 2 4 4	ISO LAMP FAN ISO LAMP FAN	PRI HOT HOT PRI NEUTRAL NEUTRAL	115V AC #1 HOT 115V AC #2 HOT 115V AC #2 HOT 115V AC #1 NEUTRAL 115V AC #2 NEUTRAL 115V AC #2 NEUTRAL
MON PS1 LF LF CPU COIN OCP	FRAME 1 FRAME FRAME FRAME 3 9	LAMP MON PS1 CPU COIN OCP CP	FRAME FRAME 1 FRAME 3 9 7	FRAME GROUND
PS1 PS1 PS1 PS1	9 10 11 7 12	CPU CPU CPU CPU	3 4 7 30 8	+5V +5V +5V RETURN +25V +25V RETURN
PS1 PS1 COIN COIN	5 4 1 2 7	COIN COIN CPU CPU CPU	8 9 10 14 11	6.3V AC LAMPS 6.3V AC LAMPS RETURN COIN SLOT O COIN SLOT 1 COIN RETURN
CP CP CP CP CP CP CP	2 3 4 5 6 8 9 1	CPU CPU CPU CPU CPU CPU CPU	6 2 1 29 5 9 13 12	2 PLAYER START 1 PLAYER START JOYSTICK RIGHT SWORD/ACTION JOYSTICK LEFT JOYSTICK DOWN JOYSTICK UP CONTROL PANEL RETURN
OCP OCP OCP OCP	4 8 3 1 5	CPU CPU VDP VDP VDP	33 32 CENTER SHIELD CENTER	COIN COUNTER COIN COUNTER RETURN DISC AUDIO (LEFT) DISC AUDIO RETURN (LEFT) DISC AUDIO (RIGHT)

1.9.84

OCP	7	VDP	SHIELD	DISC AUDIO RETURN (RIGHT)
OCP	2	CPU	24	VOLUME OUT (LEFT)
OCP	1	CPU	23	VOLUME OUT RETURN (LEFT)
OCP	6	CPU	16	VOLUME OUT (RIGHT)
OCP	7	CPU	15	VOLUME OUT RETURN (RIGHT)
CPU	28	SPKR	L+	SPEAKER (LEFT)
CPU	27	SPKR	L-	SPEAKER RETURN (LEFT)
CPU	20	SPKR	R+	SPEAKER (RIGHT)
CPU	19	SPKR	R-	SPEAKER RETURN (RIGHT)

PS1 = POWER SUPPLY 12 PIN CONNECTOR PS2 = POWER SUPPLY 4 PIN CONNECTOR

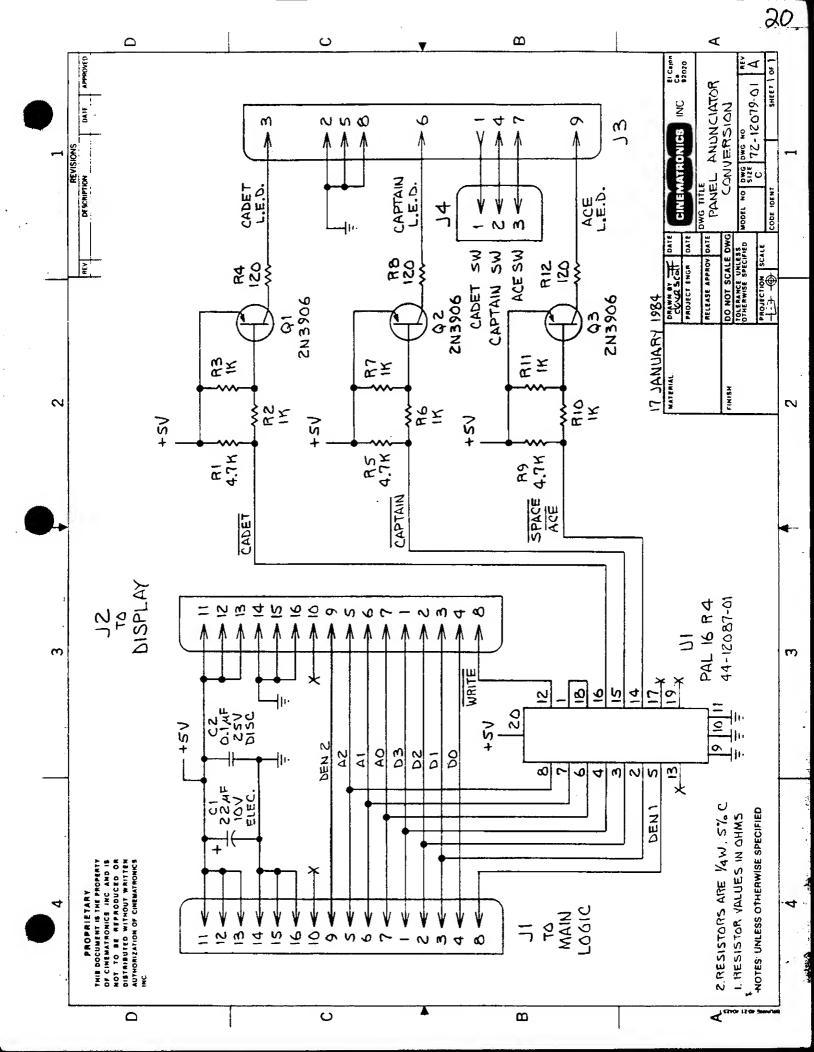
FAN = COOLING FAN
SW = POWER SWITCH
CPU = LOGIC BOARD
LAMP = FLORESCENT LAMP
CP = CONTROL PANEL

SPKR = SPEAKERS COIN = COIN DOOR MON = MONITOR

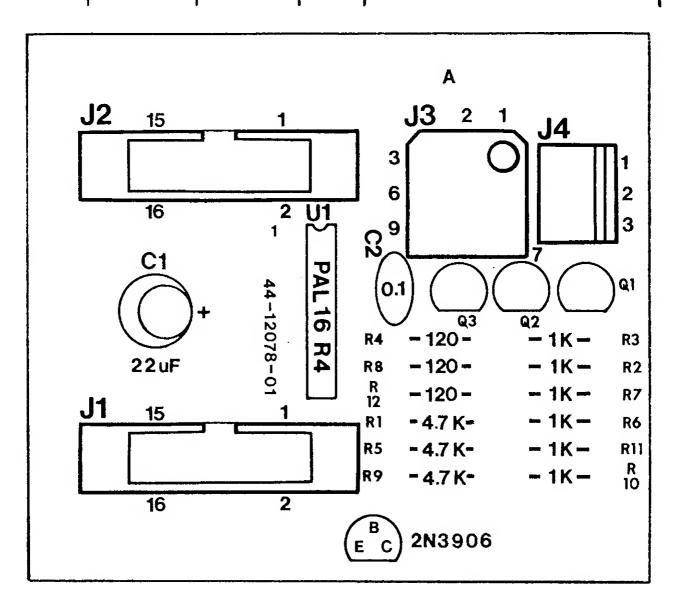
VDP = VIDEODISC PLAYER LF = AC LINE FILTER

OCP = OPERATOR CONVENIENCE PANEL ISO = MONITOR ISOLATION TRANSFORMER

NOTE: GAMES EQUIPPED WITH PR7820 DISC PLAYERS HAVE DISC PLAYER FRAME GROUND TIED TO LINE FILTER FRAME GROUND.



APPLICATION		REVISIONS					
NEXT ASSY	USED ON	APPROVED	DATE	DESCRIPTION	REV		
•			l l				
		1	i !		ı		



UNLESS OTHERWISE	APPROVALS			V-		El Cajon	
SPECFIED, DIMENSIONS ARE IN INCHES.	BY davescott	1.28.84	CIL	NEMATR	ONICS	NICS INC.	Ca.
TOLERANCES ARE: FRAC. DEC. ANGL. + .xx± + .xxx± MATERIAL	СНК		92020				
	APPD						204
	APPD		PANEL ANNUNCIATOR BOARD CONVERSION				AKU
	APPD						
INISH			SIZE	DRAWING	NUMBER &	31-120	079-01
DO NOT SCALE DWG			SCALE	E 2:1		SHEET	1 OF 1

